Taksar, I. M.

USSR

Taksar, I. M., and Plume, Z. Ya. Some boundary problems of the theory of impulsive magnetization. Akad. Nauk Latv. SSR. Trudy Inst. Fiz. 6, 21–38 (1953). (Russian)

The authors treat the problem of longitudinal magnetization of an infinite, circularly cylindrical, conducting wire of unit radius by the application of an external magnetic field. The wire has constant conductivity and permeability within the radius a from the axis, and other, also constant, conductivity and permeability between a and the outer surface. Two cases of external field are considered: in one the field jumps from zero to unity at time $t=0$, while in the other the value unity is approached exponentially. The longitudinal magnetic field is said to satisfy the differential equation $\Delta H=4\pi\mu(r)\gamma(r)c^{-2}\partial H/\partial t$, H being continuous across discontinuities in μ and γ. The problem is solved by separation of variables. *J. Shmoy* (New York, N. Y.).

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TAKSAR, I. M.

"Particle With Spin 3/2 in a Magnetic Field,"
Tr. in-ta fiziki AN LatvSSR, No 6, pp 114-122, 1953

Equations of a free particle with spin 3/2 spinor-vector form as suggested by I. Ye. Tamm and A. S. Davydov (ZhETF 17, 427 (1947) are generalized for the case of interaction with an electromagnetic field through introduction of a spin-tensor which becomes zero in absence of field. The ratio of magnetic moment of the particle to the mechanical moment was found to be 2/3 e/2mc. (RZhFiz, No 4, 1955)

SO: Sum, No 606, 5 Aug 55

TAKSAR, I

USSR

Determination of speed of filtration of ground waters by method of marked (radioactive) atoms. V. Breslavs, G. Melika-Sachnazarova, and I. Taksars. *Latvijas PSR Zinātņu Akad. Vēstis* 1955, No. 8 (Whole No. 92), 99–105 (in Russian).—Lab. tests showed that $Co(NO_3)_2$ with Co^{60}, Na phosphate with P^{32}, and Na_2SO_4 with S^{35}, as well as several dyes, were all strongly adsorbed on silicates. The loss reached 80–90% in filtration of solns. through a 5-cm. thick bed. Thus these compds. were not suitable for tracing the movement of water in ground. Andrew Dravnieks

Fizika i Tekhnika Primeneniya Radioaktivnykh Izotopov (Physics and Technique of Use of Radioisotopes), Works of the Institute of Physics, Vol 9, edited by Ya. E. Chudars, Candidate of Physicomathematical Sciences; I. M. Taksar, Candidate of Physicomathematical Sciences; and L. L. Pelekis, Riga, Publishing House of the Academy of Sciences Latvian SSR, 1956, 165 pp

USSR/Theoretical Physics - Quantum Field Theory B-6

Abst Journal : Referat Zhur - Fizika, No 12, 1956, 33799

Author : Kunin, P. Ye., Taksar, I. M.

Institution : None

Title : Nucleon Interaction with Allowance for Isobar States

Original Periodical : Latvijas PSR zinatnu akademijas Vestis, 1956, No 2, 105-115

Abstract : Nucleon interaction is considered with allowances for the isobar state of the nucleon, which is treated from the point of view of the semiphenomenological theory of I. E. Tamm and others (Referat Zhur - Fizika, 1955, 13184). The state of a system consisting of 2 nucleons is described by a wave function, which has many components, so that one or both nucleons can be in the isobar state. A system of integral equations of the covariant type is obtained

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USSR/Theoretical Physics - Quantum Field Theory B-6

Abst Journal : Referat Zhur - Fizika, No 12, 1956, 33799

for the components of the wave function. Next, one ignores in this system of equations those components which vanish in the absence of a field. Inasmuch as the interaction with the isobar can be considered small, these components yield correction for the next approximation of the perturbation theory. A transition is then effected from 4-dimensional functions to 3-dimensional ones for which a system of 36 integral equations of the Tamm-Dancoff type with 36 unknown functions is formulated. This system can be applied to processes in which the nucleons are both in free as well as in bound states.

Card 2/2

YANUSHKEVSKIY, Vladimir Aleksandrovich; SHUMILOVSKIY, N.N., prof., doktor tekhn. nauk, red.; TAKSAR, I.M., kand. fiz.-mat. nauk, red.; PROKOF'YEV, P.T., kand. fiz.-mat. nauk, red.; PELEKIS, L.L., red.; LEVI, S., red.; BOKMAN, R., tekhn. red.

[Use of radioactive radiation in industry] Primenenie radioaktivnykh izluchenii v promyshlennosti. Riga, Izd-vo Akad. nauk Latviiskoi SSR, 1957. 104 p. (MIRA 15:2)
(Radioactivity--Industrial applications)

TAKSAR, I. M.

4556

SOME RELATIVISTIC PROPERTIES OF THE BEHAVIOR OF SPIN-½ PARTICLES. P. E. Kunin and I. M. Taksar (Academy of Sciences, Latvian SSR). Soviet Phys. JETP 5, 428-8(1957) Oct.

It is shown that in the case of a scalar field the Klein paradox does not arise for spin-½ particles tunneling through a potential barrier. The particle does not fall toward the center of a centrally symmetric field even when a high-order pole exists in the center. This result also holds in classical relativistic theory. (auth)

21

Distr: 4E4c/4E3d

So. Zhur. Eksp. i Teor. Fiz. 32 No3:506-9 Mr 57

1. Latviyskiy gosudarstvenny universitet i institut fiziki AN Latviyskoy SSR.

119-6-14/16

Scientific-Technical Conference on Methods of Radioactive Control and Regulation of Manufacturing Processes

doctor of technical sciences and L.V.Mel'ttser, candidate of technical sciences (institute for automation and telemechanics AN USSR); it dealt with the basic trends and tendences in the development of the automation production control by means of nuclear radiation. Great attention was paid to the reports of the Scientific Research Institute for the Construction of Heat-Energetic Apparatus (NIITeplopribor), which dealt with the theoretical principles in the design of radioactive apparatus for the measuring of the level and density of liquids. B.I.Verkhovskiy (Physical Institute AN USSR imeni Lebedev) described a method on the increase of exactness in the measuring of the intensity of radioactive radiation. I.M. Taksar and V.A.Yanushkovskiy (Institute for Physics AN Latvian SSR) reported on the consideration which should be given to the statistic of the control signal at the registration of radiation by means of a radioactive relay. The report of V.K.Latyshev, Yu.S.Pliskin, L.K.Tatochenko and A.K. Felinger (Central Scientific Research Institute for Iron-Mining) dealt with the characterization of the principle of the establishment of a quick-working radioactive ammeter. Other interesting reports were submitted: by the Central Scientific Research Institute for Iron Mining, by the Central

Card 2/3

PA - 2962

AUTHOR KUNIN, P.E., TAKAR, I.M.,

TITLE Some Relativistic Pecularities of the Behavior of the Particles with Spin 1/2.
(Nekotoryye relyativistikiye osobennosti povedeniya chastits so spinom 1/2 - Russian)

PERIODICAL Zhurnal Eksperim.i Teoret. Fiziki, 1957, Vol 32, Nr 3, pp 506-509, (U.S.S.R.)
Reviewed 7/1957
Received 6/1957

ABSTRACT In the case of scalar interaction the potential of the interaction between the particle and the field is invariant, whilst in the case of electrostatic (vectorial) interaction the potential consists of the fourth component of a fourdimensional vector. Therefore the DIRAC equations which describe the behavior of a particle with spin 1/2 in the scalar field, have the following form, $\left\{E - i\left(\alpha_1\frac{\partial}{\partial x} + \alpha_2\frac{\partial}{\partial y} + \alpha_3\frac{\partial}{\partial z}\right) + \rho_3(E_0 + U)\right\}\psi = 0$

Here E denotes the total energy of the particle, E_0 - its rest energy, U - the potential energy of the particle in the scalar field, $\alpha_1, \alpha_2, \alpha_3$, and ρ_3 - DIRAC matrices. PLANCK'S constant and the velocity of light are here put equal to 1. The authors here examine the onedimensional motion of the particle in the direction of the Ox-axis in a field, which represents a straight potential barrier of the form $U=0 (x<0)$, $U=U_0 (x>0)$. Here also the solution of the SCHRODINGER equation is set up in the form of the plane waves $\psi_i = a_i e^{ipx} + b_i e^{-ipx} (x<0)$, $_i = c_i e^{iqx} (x>0)$, and by

Card 1/2

Trudy... [illegible] and [illegible] instrument manufacturing, Moscow, Izd-vo AN SSSR, 1958. [illegible] p. 4,500 copies printed.

Sponsoring Agencies: USSR. Glavnoye upravleniye po ispol'zovaniyu atomnoy energii, and Akademiya nauk SSSR.

PURPOSE: This book is intended for specialists in the field of machine and instrument manufacture who use radioactive isotopes in the study of materials and processes.

COVERAGE: This collection of papers covers a very wide field of the utilization of tracer methods in industrial research and control techniques. The topic of this volume is the use of radioisotopes in the machine- and instrument-manufacturing industry. The individual papers discuss the applications of radioisotope techniques in the study of metals and alloys, problems of friction and lubrication, metal cutting, engine performance, and defects in metals. Several papers are devoted to the use of radioisotopes in the automation of industrial processes, recording and measuring devices, quality control, flowmeters, level gauges, safety devices, radiation counters, etc. These papers represent contributions of various Soviet institutes and laboratories. They were published as Transactions of the All-Union Conference on the Use of Radioactive and Stable Isotopes and Radiation in the National Economy and Science, April 4-12, 1957. No personalities are mentioned. [illegible] at the end of most of the papers.

Editorial Board of S.t: V.I. Lit[illegible], Acad[illegible]ician (Resp. Ed.), [illegible] Shumilovskiy ([illegible] Ed.), Yu. S. [illegible] (Deputy Resp. Ed.), L.L. Tsiochkovo, E.I. Verkhivskiy, S.T. Nazarov, L.I. Petrunin and N.G. Zelevinskaya (Secretary).

Ed. of Publishing House: P.N. Belyanin; Tech. Ed.: T.P. Polenova.

PURPOSE: This book is intended for specialists in the field of machine and instrument manufacture who use radioactive isotopes in the study of materials and processes.

COVERAGE: This collection of papers covers a very wide field of the utilization of tracer methods in industrial research and control techniques. The topic of this volume is the use of radioisotopes in the machine- and instrument-manufacturing industry. The individual papers discuss the applications of radioisotope techniques in the study of metals and alloys, problems of friction and lubrication, metal cutting, engine performance, and defects in metals. Several papers are devoted to the use of radioisotopes in the automation of industrial processes, recording and measuring devices, quality control, flowmeters, level gauges, safety devices, radiation counters, etc. These papers represent contributions of various Soviet institutes and laboratories. They were published as Transactions of the All-Union Conference on the Use of Radioactive and Stable Isotopes and Radiation in the National Economy and Science, April 4-12, 1957. No personalities are mentioned. References are given at the end of most of the papers.

SHUMILOVSKIY, N. N., YAMESHKOVSKIY, V. A. and TAKSAR, I. M. and others.

"The Theory and Practice of Applying Relay-Type Instruments Based on the Use ~~XXXX~~ of Radioactive Isotopes."

to be

paper presented at 2nd UN INtl. Conf. on the peaceful uses of Atomic Energy, Geneva, 1 - 13 Sep 58.

TAKSAR, I.M

PHASE I BOOK EXPLOITATION SOV/4461

Akademiya nauk Latviyskoy SSR

Nauka - proizvodstvu; kratkiye annotatsii rabot, vypolnennykh dlya promyshlennosti i stroitel'stva, vyp. 4 (From Science to Production; Short Annotations of Work Accomplished for Industry and Construction, Vol.4) Riga, 1959. 119 p. 1,000 copies printed.

Editorial Board: S. B. Aynbinder, Candidate of Technical Sciences, M. P. Zakis, Candidate of Economic Sciences, A. K. Malmeyster, Corresponding Member, Academy of Building and Architecture SSSR, P.N. Odintsov, Corresponding Member, Academy of Sciences Latviyskaya SSR, and K. K. Plaude (Resp. Ed.) Academician, Academy of Sciences Latviyskaya SSR; Ed.: Ch. Shklennik; Tech. Ed.: R. Bokman.

PURPOSE: This book is intended for construction and industrial scientific personnel, especially those concerned with the use of radioactive isotopes.

COVERAGE: The book contains 44 articles presenting the results of work accomplished at institutes of the Latvian Academy of Sciences in 1958. The articles, which deal with assorted problems in the mechanical, building, and chemical

Card ~~1/15~~

industries, are grouped in the following sections: automation and mechanization of industrial processes, machinery construction, construction and construction materials, chemical technology, and industrial economy. References accompany individual articles.

TABLE OF CONTENTS:

TAKSAR, I.M.

4) PHASE I BOOK EXPLOITATION SOV/2713

International Conference on the Peaceful Uses of Atomic Energy. 2nd, Geneva, 1958

Doklady sovetskikh uchenykh; polucheniye i primeneniye izotopov (Reports of Soviet Scientists; Production and Application of Isotopes) Moscow, Atomizdat, 1959. 588 p. (Series: Its: Trudy, vol. 6) 8,000 copies printed.

Eds. (Title page): G.V. Kurdyumov, Academician, and I.I. Novikov, Corresponding Member, USSR Academy of Sciences; Ed. (Inside book): Z.D. Andreyenko; Tech. Ed.: Z.D. Andreyenko.

PURPOSE: This book is intended for scientists, engineers, physicians, and biologists engaged in the production and application of atomic energy to peaceful uses; for professors and graduate and undergraduate students of higher technical schools where nuclear science is taught; and for the general public interested in atomic science and technology.

COVERAGE: This is volume 6 of a 6-volume set of reports delivered by Soviet scientists at the Second International Conference on the Peaceful Uses of Atomic Energy held in Geneva from September 1 to 13, 1958. Volume 6 contains 32 reports on: 1) modern methods for the production of stable radioactive isotopes and their labeled compounds, 2) research results obtained with the aid of isotopes in the field of chemistry, metallurgy, atomic building, and agriculture, and 3) dosimetry of ionizing radiation. Volume 6 was edited by: S.V. Lovinskiy, Candidate of Medical Sciences; V.N. Prusakov, Candidate of Chemical Sciences; and V.V. Sedov, Candidate of Medical Sciences. See SOV/2681 for titles of volumes of the set. References appear at the end of the articles.

report to be presented at the 1st Intl Congress of the Intl Federation of Automatic Control, 25 Jun-5 Jul 1960, Moscow, USSR.

LERNER, A. Ya., - "The application of a self-adjusting system of automatic control"
MALOV, V. S., PSHEKHRITSKIY, A. M., and [redacted] A. - "Industrial telemeasurement systems and digital technique"
MEYEROV, M. V. - "Some peculiarities of the structure of multi-communications regulation systems"
MIKHAYLOVSKIY, V. N. - "Evaluation indexes and the possibility of increasing the quality of telemeasurement systems"
NEKRASOVSKIY, V. V. - "Concerning the problem of established routines in automatic regulation systems"
NETREBENKO, E. A. "Principals of construction of digital double code automatic compensator"
NEKORARK, Yu. I. - "Concerning the relation of systems of automatic regulation with the parameters of periodic movements"
NIKOLAYEV, N. S., and EPSHTEYN, V. L. - "System of automatic control of cutting of rolled metal on a continuous bar mill with the use of digital calculating machines"
ONOYTRIEV, V. M. - "Some principles of organizing systems of complex automation of large scale chemical production and optimization of these systems"
OSTROVSKIY, G. M. - "Systems of automatic regulation with intermittent change of parameters"
PEROV, V. P. - "Statistical synthesis of impulse systems"
PETROV, B. N. - "The invariant principle and its application in the calculation of linear and nonlinear systems"
PIVEN, V. D. - "The problem of autonomy in the technique of automatic control"
POPOV, E. P. - "Some problems of synthesis of automatic control non-linear systems"
PUGACHEV, V. S. - "Method of determining the optimum system with non-linear relation of the observed function with the parameters of the signal"
PUTSILLO, V. P., PETROV, V. V., NEKRASOV, R. V., and VOLODIN, E. E. - "Principles of construction of a single class of extra control systems for automating production processes"
ROGINSKIY, V. N. - "The development of the theory of relay devices in the USSR"
ROZENBLAT, M.A. - "Dynamic characteristics of cores with right angle hysteresis winding and their influence on magnetic boosters"
ROLCHER, L.I. - "Varied methods of investigating the quality of automatic control systems"
RUSHINSKIY, V. M. - "Dynamics of automatic regulation of boiler-turbine units"
SHUMILOVSKIY, N. N., MEL'TZER, L. V., NAUMOV, A. A., MEN-CHEN-CHUNUN, and PIVOVAROV, L. A. - "Automatic control of composition of multi-ingredient mixtures"
SHAGOVSKIY, E. S., and SHKALIN, V. G. - "Some results of work for the utilization of radioactive radiation for automatic control of mining machinery"
SOLODOVNIKOV, V. V., BATKOV, A. M., BABURIN, V. M., VAL'DEYBERG, Yu. S., MATVEYEV, P. S., and POKROVSKIY, A. K. - "Analyses and synthesis of automatic control systems with the aid of calculating machine facilities"
STAKHOVSKIY, R. I., FITSNER, L. N., and SHUBIN, [redacted] "Automatic optimizers and their use for solution of variation problems in automatic synthesis"
STRAKHOV, S. V. - "A system of alternating current electric drives with autonomous power supply"
TAMSAR, I. M., and YANKELEVSKIY, V. A. - "Apparatus for technical control of production with the use of nuclear radiation"
TEODORCHIK, K. F., and BENDRIKOV, G. A. - "Methods of organizing the trajectory of roots of linear systems and qualitative determination of type of trajectory"
TSYPKIN, Ya. Z. - "Elements of the theory of digital automatic systems"
VENCHKOVSKIY, D. B., KASHIKIN, V. A., CHUGIN, Yu. I., and SHASTOVA, G. A. - "Static stability of telemeasurement"
VENIKOV, V. A. - "Interactions of a mathematical modeling and calculating technology experiment in calculating loads in electrical systems"

Transactions of the Tashkent (Cont.) SOV/5410

Candidate of Physics and Mathematics; Ya. Kh. Turakulov, Doctor of Biological Sciences. Ed.: R. I. Khamidov; Tech. Ed.: A. G. Babakhanova.

PURPOSE: The publication is intended for scientific workers and specialists employed in enterprises where radioactive isotopes and nuclear radiation are used for research in chemical, geological, and technological fields.

COVERAGE: This collection of 133 articles represents the second volume of the Transactions of the Tashkent Conference on the Peaceful Uses of Atomic Energy. The individual articles deal with a wide range of problems in the field of nuclear radiation, including: production and chemical analysis of radioactive isotopes; investigation of the kinetics of chemical reactions by means of isotopes; application of spectral analysis for the manufacturing of radioactive preparations; radioactive methods for determining the content of elements in the rocks; and an analysis of methods for obtaining pure substances. Certain

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instruments used, such as automatic regulators, flowmeters, level gauges, and high-sensitivity gamma-relays, are described. No personalities are mentioned. References follow individual articles.

TABLE OF CONTENTS:

RADIOACTIVE ISOTOPES AND NUCLEAR RADIATION IN ENGINEERING AND GEOLOGY

S/194/62/000/001/017/066
D201/D305

AUTHORS: Taksar, I. M. and Yarmushkovskiy, V. A.

TITLE: Problems of standardizing the technological control equipment in radioactive isotope applications

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 1, 1962, abstract 1-2-39s (Tr. Tashkents. konferentsii po mirn. uspol'zovaniyu atomn. energii. T.2 Tashkent. AN UzSSR, 1960, 9-17)

TEXT: This is a short description of the position (relay) type of instruments as developed by the Institut fiziki AN LatSSR (Institute of Physics of the AS LatvSSR) in conjunction with the Tallin factory of control and measurement instruments. For the purposes of standardization the equipment was divided into 3 separate parts: The source of radiation, transmitter and a universal electronic relay unit. Various purpose instruments, using 8 types of radio-active transmitters are considered. The example of using switching instruments in the continuous action equipment is given which shows

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Problems of standardizing ... S/194/62/000/001/017/066
D201/D305

new possibilities in the construction of regulating and control arrangements. 8 figures. 3 references. /Abstracter's note: Complete translation./

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S/081/62/000/001/026/067
B151/B101

AUTHORS: Barabanov, B. V., Zarinya, E. M., Ogilets, M. V., Taksar, I. M., Yanushkovskiy, V. A.

TITLE: Automatic control of a vacuum-distillation apparatus using radioactive relay systems

PERIODICAL: Referativnyy zhurnal, Khimiya, no. 1, 1962, 300, abstract 1Б153 (Sb. "Radioaktivn. izotopy i yadern. izlucheniya v nar. kh-ve SSSR. v. 2". M., Gostoptekhizdat, 1961, 84-85)

TEXT: For the control of a single-shell vacuum-distillation apparatus in the Rizhskiy maslozhirovyy kombinat (Riga Oil and Fat Combine) a system has been installed whereby a measuring column with an areometer floating in it is connected with the apparatus by means of two thin tubes. On the column there are two β-radiation sources of the БИ-1 (BI-1) type and two pickups of the РД-6 (RD-6) type (for determination of the density and level of the solution). The signal from the pickups enters a standard amplifier

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circuit of the - (URAP-ZD) type and is then passed on to an automatic control block through the slave. It is envisaged that the transition will be made from automatic control to semi-automatic and centralized manual control. The installation of this system in a single shell vacuum distillation apparatus for the production of glycerin gives an economic saving of ~ 64 thousand roubles per year. [Abstracter's note: Complete translation.]

ACCESSION NR: AP3007869 S/0197/63/000/008/0057/0062

AUTHORS: Kunin, P.; Taksar, I.; Shiltere, M.; Shilter, E.

TITLE: On energy spectra and oscillator forces in single valence atoms

SOURCE: AN LatSSR. Izvestiya, no. 8, 1963, 57-62

TOPIC TAGS: Shrödinger equation, single valence atom, potential field, neutral atom, single charge ion, lithium atom, sodium atom, potassium atom

ABSTRACT: The Shrödinger equation has been solved for single-valence atoms in two effective potential fields given by

$$U=-\frac{B}{r}+\frac{s(s+1)}{2r^2}, \quad (1)$$

where B = 1 for neutral atoms, B = 2 for single-charge ions, etc., and by a second, more complicated, one given by

$$U=\frac{-2r^2-2ar+s(s+1)b}{2r^2(r+b)} \quad (2)$$

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ACCESSION NR: AP3007869

A closed form solution is obtained for (1) and a three-term recurrence formula, represented by a series, for (2). Detailed numerical computations on an electronic computer are obtained for lithium, sodium, and potassium atoms and in isoelectron series of lithium. The various parameters appearing in the equations for various energy levels are determined from experimental data. All computations were performed on the BESM-2 VTs computer at Latviyskiy gosudarstvennogo universitet Im. P. Stuchki (Latvian State University). Orig. art. has: 12 formulas and 1 table.

ASSOCIATION: none

SUBMITTED: 26Dec62 DATE ACQ: 21Oct63 ENCL: 00

SUB CODE: PH NO REF SOV: 003 OTHER: 000

Card 2/2

KUNIN, P.; TAKSAR, I.; SHILTER, E. [Silters, E.]

Effective potential method for determining the sodium atom. Izv. AN Latv. SSR no.10:49-53 '63. (MIRA 17:1)

ZAPOL', B.; KUNIN, P.; TAKSAR, I.; TSIRULE, Z. [Cirule, Z.]

Effective potential method for calculating the energy spectrum and wave functions of univalent atoms. Izv. AN Latv. SSR no.10:54-56 '63. (MIRA 17:1)

L 01468-66 EWT(1 IJP(c)

ACCESSION NR: AP5016658 UR/0382/65/000/002/0101/0110
538.4+621.689

AUTHOR: Valdmanis, Ya. Ya.; Kunin, P. Ye.; Mikel'son, Yu. Ya.; Taksar, I. H.

TITLE: Conducting slab in a traveling electromagnetic field of a two-sided inductor

SOURCE: Magnitnaya gidrodinamika, no. 2, 1965, 101-110

TOPIC TAGS: MHD, electromagnetic field, current density, magnetic induction

ABSTRACT: Theoretical study of current density and magnetic induction in a slab with conductivity σ and permeability μ_0 is reported. The slab is placed between linear round conductors; the slab and conductors are between regions characterized by infinite permeability. These are denoted as regions I, II, III in fig. 1 of the Enclosure. The conductors producing the traveling magnetic field are connected to a three-phase generator. The solution for magnetic vector potential and current density are obtained by writing out both as infinite series and appropriate boundary conditions are applied. The resulting magnetic induction (and current density) then

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L 01468-66

ACCESSION NR: AP5016658

lead to the expression for the magnetic force density components along and across the conducting slab. The conditions for minimizing the effects of various harmonics on the magnetic force density are given as well as its dependance on the skin depth in the slab and separation of conductors from the slab. Change in force density is also considered when N conductors are connected to a given phase. The differences between the two cases are pointed out and it is noted that only a small increase in force density can be achieved. Finally, two more cases are considered where the current-carrying round conductors are replaced by flat plates with and without separation between them. The average force density is computed to within 0.1%. Orig. art. has: 46 formulas, 4 figures.

ASSOCIATION: none

SUBMITTED: 01Oct64 ENCL: 01 SUB CODE: EM, ME

NO REF SOV: 002 OTHER: 000

Card 2/3

L 01468-66

ACCESSION NR: AP5016658 ENCLOSURE: 01

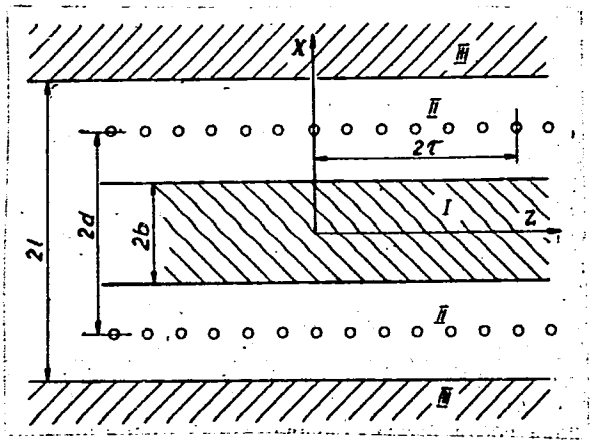

Fig. 1.
I--Infinite conducting slab with conductivity σ and permeability μ_0
II--Region with conductivity σ = 0 and μ = μ_0
III--Region with μ= ∞ and σ = 0

Card 3/3

1. TAKSARS A. KIRIUS I.E.

2. USSR (600)

4. Solenoids

7. Magn tic field of a terminal solenois, Latv.FSR Zin. Akad. Vestic no.9 1951.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, unclass.

TAKSERMAN, D.; RASHKOVETSKIY, M.

Loading and unloading rubber in the Il'ichevsk harbor. Mor. flot 23 no.1:11-12 Ja '63. (MIRA 16:4)

1. Nachal'nik kommercheskogo otdela Il'ichevskogo porta (for Takserman). 2. Dispetcher Il'ichevskogo porta (for Rashkovetskiy).
(Il'ichevsk—Loading and unloading)
(Rubber—Transportation)

TAK[illegible], I.

[illegible] problems in the operation of the fleet and ports. Mor. flot 24 no.12:10 D '64. (MIRA 18:8)

1. Starshiy inzhener po kommercheskoy rabote Upravleniya passazhirskogo flota Chernomorskogo parokhodstva.

(15)

Warsaw-Wroclaw, Wiadomosci Chemiczne, Vol 15, No 12 (174), December 1961.

1. "Ions-Complex Mechanism of Nitration of Aromatic and Unsaturated Compounds," A. I. TITOV of the State Science and Research Institute for Organic Semiproducts and Dyes at Moscow (translation of an article revised by author, originally published in Usp chimii 27, 885 (1958) by M. MAKOSZ of the Faculty of Chemistry (Wydzial Chemiczny) of the Polytechnic Institute (Politechnika) at Warsaw; pp 741-811 (English Summary).

2. "Intraparticle Redox Potentials," M. CZAKIS-SULIKOWSKA; pp 812-816.

3. "New Reactions and Combinations of Complex Isocyanates with Tertiary Amines and Their Complexes with Primary Amines," Zdzislaw BRZOZOWSKI of the Chair of Organic Chemistry (Katedra Chemii Organicznej) of the M. Kopernika University (Uniwersytet M. Kopernika) at Torun (Doctorate dissertation monograph, Sponsor: Prof. Dr. Witold ZACHARIEWICZ, Reviewers (recenzent): Prof. Dr. Josef SAWLEWICZ and Docent Dr. Jan KRUPOWICZ); pp 815-819.

4. "Behavior of Rigid Macroparticles in a Velocity Field with Longitudinal Gradient," Rachela TAKSENMAN-KROZER of the Institute of General Chemistry (Instytut Chemii Ogolnej) of the Research Office of Applied Physics (Zaklad Fizyki Technicznej), (Doctorate dissertation monograph, Sponsor: Docent Janina SWIETOSLAWSKA, Reviewers: Prof. Dr. Eligia TURSKA and Docent Dr. Eng. Jerzy ZAWADZKI); pp 819-824.

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TAKSE[illegible]-[illegible]TER, [illegible]; [illegible], A.

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1. Pracownia Fizyki Polimerow, Zaklad Fizyki Technicznej, Instytut Chemii Organicznej, Warszawa.

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1. Pracownia Fizyki Polimerow, Zaklad Fizyki Technicznej, Instytut Chemii Ogolnej, Warszawa.

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1. Pracownia Fizyki Polimerow, Zaklad Fizyki Technicznej, Instytut Chemii Ogolnej, Warszawa.

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Behavior of flexible chain-macromolecules in the hydrodynamic field with parallel velocity gradient. Bul Ac Pol mat 11 no. 9:603-613 '63.

1. Department of Technical Physics, Institute of General Chemistry, Warsaw. Presented by L. Infeld.

ZIABICKI, Andrzej; TAKSMAN-KROZER, Rachela

Formation and breakage of liquid threads. Pts. 1-2. Rocz chemii 37 no.11:1503-1518 '63.

1. Institute of General Chemistry, Department of Technical Physics, Warsaw-Zoliborz.

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Formation and breakage of liquid threads. Pt. 3. Rocz chemii 37 no.12:1607-1616 '63.

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1. Division of Technical Physics of the Institute of General Chemistry, Warsaw. Submitted July 13, 1964.

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Professor Marko Margetic, April 25, 1891-March 19, 1955; obituary.
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TAKSIC, A.; KRAJC, V ; SABIONCELLO, P.

Finds of new coal deposits in Krndija Planina. p. 87.

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Fifty years of the geologic service in Croatia, 1909-1959. Geol vjes Hrv 13:219-221 '59 (published '60). (EEAI 10:4)
(Croatia--Geology)

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Prof. Dragutin Anic; obituary. Geol vjes Hrv 15 no.2:519-523 [publ. '63]

TAKSIS, A. I.

Chill casting iron kitchen pots. Lit.proizv. no.7:28-29 Jl'55.
(Revda--Founding) (MLRA 8:10)

ACC NR: AP6036904 SOURCE CODE: UR/0226/66/000/011/0072/0076

AUTHOR: Bessonov, A. F.; Taksis, G. A.; Semavin, Yu. N.

ORG: Ural'skiy Polytechnic Institute im. S. M. Kirov (Ural'skiy politekhnicheskiy institut)

TITLE: Investigation of solid phase reactions with the aid of a micrometric dilatometer

SOURCE: Poroshkovaya metallurgiya, no. 11, 1966, 72-76

TOPIC TAGS: chemical reaction, solid phase reaction, dimension analysis, micrometric dilatometer, dilatometer, calcium carbonate, cuprous oxide, iron oxide, material deformation, aluminum oxide, zirconium oxide

ABSTRACT: A schematic diagram is presented for a high-temperature complex micrometric dilatometer. Use of this dilatometer, makes it possible to analyze in addition to changes in linear dimensions the sequence of processes which occur in samples of $MgO + FeO$, $MgO + Cu_2O$, $Al_2O_3 + Cu_2O$, and $ZrO_2 + CaCO_3$ on heating. The special characteristics of these processes are determined for temperature regions of existence of various phases, areas of pronounced shrinkage

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ACC NR: AP6036904

of material, and temperatures of development of swelling, sintering, etc. Orig. art. has: 5 figures. [Based on authors' abstract] [NT]

SUB CODE: 11/SUBM DATE: 25Feb66/ORIG REF: 006/OTH REF: 004/

Card 2/2

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More attention to the public instructor. Voen. znan. 39 no.12:26 D '63. (MIRA 17:1)

1. Nachal'nik shkoly grazhdanskoy oborony Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i floty, Sverdlovsk.

TAMSON, Gy. - Vol. 8, no. 5, May 1955. - Magyar Energiagazdalag

Heating needs of towns and settlements; determination of basic data on the source of heat in thermal power plants. (To be contd.) p. 176.

SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, No. 9, Sept. 1955
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SO: Monthly List of East European Accession. (EEAL). LC. Vol. 5, no. 11 Nov. 1956. Unclas.

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Vol. [illegible], No. 8, Aug. 1958.
MAGYAR TUDOMANYOS AKAD.
TECHNOLOGY
Budapest, Hungary

Sc; Eastern European Accession, Vol. 8, No. 5, May 1959

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[illegible]
[illegible] of [illegible] vocal [illegible]; [illegible] in the Soviet [illegible]
[illegible] possibilities for their [illegible]. [illegible]

[illegible] Budapest, Hungary [illegible]

[illegible]: [illegible] Index of East European Accession, (EEAI), [illegible], Vol. 5
No. 3, [illegible], [illegible]

VAMOSHY, M.

Automatic regulation of heating and district heating.

p. 173 (Energia es Atomtechnika) Vol. 10, no. 4, Aug. 1957, Budapest, Hungary

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

Taksony, Gy.

Present conditions and outlook of district heating in Hungary. p. 436

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Budapest, Hungary. Vol. 12, no. 7/8, July/August 1959

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1. Institut paleobiologii AN GruzSSR, Tbilisi. Submitted October 31, 1961.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754720018-6"

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Cobalt and nickel content in some food products of Georgia. Vop. pit. 22 no.6:73-74 N-D '63. (MIRA 17:7)

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Methodology of determining small quantities of nickel in biologic-
al materials. Lab. delo 10 no.3:153-156 '64. (MIRA 17:5)

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TAKTAROV, V.S., inzhener; SHARGORODSKIY, A.D., inzhener.

All-purpose machine for filling earth dams without use of trestles. Mekh. stroi. 12 no.5:21-22 My '55. (MLRA 8:6)
(Dams) (Hydraulic engineering)

TAKTASHEV, A., prepodavatel'; ROMADIN, V., prepodavatel'; GNATYUK, Ye., kand. tekhn. nauk, dotsent; KOLESNIK, P., dotsent

Training of specialists. Avt. transp. 41 no.6:52-54 Je '63. (MIRA 16:8)

1. Astrakhanskiy avtodorozhnyy tekhnikum (for Taktashev, Romadin). 2. Zamestitel' dekana transportnogo fakul'teta Moskovskogo inzhenerno-ekonomicheskogo instituta imeni Ordzhonikidze (for Kolesnik).

TAKTAYEV, A.

History of the organizational development of land improvement cooperation in the Uzbek S.S.R., 1923-1931. Nauch. trudy TashGU no.206:54-71 '62. (MIRA 16:6)

(Uzbekistan—Irrigation)

1. MEDVEDENKO, L. T.; TARTIONOVA, T. S.

2. USSR 600

4. Onions.

7. Effect of dry-scale removal in onions on seeds yield and on obtaining a second crop o bulbs, Sbor. stud. rab. Umansk. sel'khoz. inst., No. 1, 1951.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

TAKUBAEV, ZH. S.

Takubaev, Zh. S. Calculation of highest approximations during the dispersion of fast electrons by electrons. Page 898.

P. N. Lebedev Inst. of Physics
Acad. of Sci. USSR
February 4, 1950.

SO: Journal of Experimental and Theoretical Physics, Vol. 20, No. 10., October, 1950.

USSR/Electrochemistry B-12

Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 26330

Author : A.P. Totopov, A.M. Takubov

Title : To the Question of Background Selection for Anode Polarography in Non-Aqueous Solvents.

Orig Pub : Zh. fiz. khimii, 1956, 30, No 8, 1702-1706

Abstract : The solutions of KOH in methanol and ethanol, of NaI in acetonitrile and $(CH_3)_4NI$ in pyridine are suitable as background at anode polarographing with Hg drop electrode; addition of relatively large amounts of water to KOH solution in ethanol does not cause any undesirable phenomena.

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"Clinical Significance of the Topography of Cancer Metastases in the Lymph Nodes of the Neck." Cand Med Sci, State Inst for the Advanced Training of Physicians, Leningrad, 1954. (RZhBiol, No 5, Mar 55)

SO: Sum. No. 670, 29 Sep 55--Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

TAKULOV, U.T.

Diagnostic significance of topography of metastases of cancer in cervical lymph nodes. Vop.onk. 1 no.5:46-56 '55. (MLRA 10:1)

1. Iz Severo-Osetinskogo respublikanskogo onkologicheskogo dispansera (glavnyy vrach U.T.Takulov) i Kliniki obshchey khirurgii SOGMI (zav. - prof. G.Kh.Serkisov) Adres avtora: Ordzhonikidze, Severo-Osetinskiy respublikanskiy onkologicheskiy dispanser.

(LYMPH NODES, neoplasms,
metastatic spreading from various organs, cervical nodes)
(NECK, neoplsms,
metastatic spreading by cervical lymph nodes various organs)

EXCERPTA MEDICA Sec 16 Vol 7/12 Cancer Dec 59

★5006. Some data on cancer of the skin in North Osetia (Russian text)

TAKUEV U. T. Republ. Oncol. Disp. of North Osetia, Ordgeonikidze *Vopr. Onkol.* 1959, 5/8 (213-217) Tables 3

During 1947-1957 cancer of the skin accounted for 15.5-33.5% (average 22.9%) of all malignant tumours. The morbidity rate per 100,000 was 128 for men and 150 for women. A detailed analysis of 700 cases is given. The site was the face in

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82.1%, scalp 3.3%, neck 2.4%, trunk 3.3%, and extremities 5.0%. Multiple lesions were noted in 3.9% of cases. In 26 patients (3.7%) lymph node metastases were found. In tumours of the legs, however, metastases were found in 6 out of 14 patients. (XVI, 13)

TAKULOV, U.T., dotsent

Data on the microscopic examination of the margins of a stomach preparation resected for cancer and an evaluation of the degree of the radical operation. Khirurgiia no.8:73-77 Ag '62. (MIRA 15:8)

1. Iz Severo-Osetinskogo respublikanskogo onkologicheskogo dispansera (glavnyy vrach -- kand.med.nauk A.Kh. Khoranov) g. Ordzhonikidze.

(STOMACH--SURGERY) (STOMACH--CANCER)

TAKULOV, U. T. (Ordzhonikidze, ul. Spartaka, 14)

Routes for the lymphogenic spreading of gastric cancer. Vop. onk. 8 no.5:52-61 '62. (MIRA 15:7)

1. Iz kafedry obshchey khirurgii (zav. - prof. G. Kh. Sarkisov) Severo-Osetinskogo gosudarstvennogo meditsinskogo instituta (rektor - dots. M. A. Totrov) i Severo-Osetinskogo respublikanskogo onkodispansera (glav. vrach - kand. med. nauk A. Kh. Khoranov)

(STOMACH--CANCER) (LYMPHATICS)

TAKULOV, U.T. (Ordzhonikidze)

Changes in the lymph ducts in gastric cancer. Arkh. pat. 25 no.5:51-57 '63. (MIRA 17:2)

1. Iz kafedry khirurgii (zav. - prof. G.Kh. Sarkisov) i kafedry normal'noy anatomii (zav. - dotsent V.V. Fedyay) Severo-Osetinskogo meditsinskogo instituta.

TAKULOV, U.T., dotsent

Macroscopic form of gastric cancer and the characteristics of its growth and microscopic expansion. Khirurgiia 41 no.4:60-64 Ap '65. (MIRA 18:5)

1. Kafedra obshchey khirurgii (zav. - dotsent U.T. Takulov) Severoosetinskogo meditsinskogo instituta i Severoosetinskiy respublikanskiy onkologicheskiy dispanser, Ordzhonikidze.

AUTHOR: Takumbetov, M. (Ufa) 2-2-4/12

TITLE: Estimation and Calculation of Operational Expenses at Machine and Tractor Stations (Ob uchete i kal'kulirovanii proizvodstvennykh zatrat v mashinno-traktornykh stantsiyakh)

PERIODICAL: Vestnik Statistiki, 1957, # 2, p 29-39 (USSR)

ABSTRACT: One of the basic conditions for a continuous rise of agricultural production in the USSR is the improvement of the performances of the Machine and Tractor Stations - MTS. According to the directives for the sixth five-year plan, the daily performances of tractors and combines must be increased by 30 % - 35 % and the net operational costs reduced by 16 % in order to diminish the considerable expenses to the government. It is planned to make the MTS gradually self-supporting, which will enable better utilization of material and labor resources and help increase the importance of the MTS in the development of agricultural production and the organizational consolidation of the collective farms. The author points out that self-supporting enterprises ought to do correct estimations and calculations of net operational costs and that the accounting system used by the MTS does not reveal the exact expenses for the work performed by machines and tractors on the collective

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farms they are servicing. The present calculating system needs substantial improvements if the MTS should be made self-supporting. Proper bookkeeping showing the actual expenses of MTS for maintenance, repair, work performed by tractors and combines, transportation by trucks, supply of electricity from MTS power plants to households on collective farms will reduce operational costs wherever possible and show the net costs for labor and expenses in correct proportion to the compensation received from the collective farms. There are two tables.

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TAKUMBETOV, M.I., nauchnyy sotrudnik.

Cost accounting at machine-tractor stations. Nauka i pered.op.v sel'khoz.7 no.1:48-50 Ja '57. (MLRA 10:2)
(Machine-tractor stations--Acounting)

TAKUMBETOV, M.

Accounting for production expenses and calculating costs on machine-tractor stations that operate on a commercial basis. Bukhg.uchet 24 no.4:16-24 Ap '57. (MIRA 10:12)
(Machine-tractor stations--Costs)

"Self Cost Price of Machine and Tractor Work and Problems of Calculation at the MTS.(Machine and Tractor Station)."

dissertation defended for the degree of Canddiate of Economy at the Inst. for Economy.

Defense of Dissertation (Jan-Jul 1957)
Sect. of Economy, Philosophy, and Jurisprudence
Vest. AN SSSR, 1957, v. 27, No. 12, pp. 126-128

KOLPAKOV, S.V., inzh.; TAKUNOVA, S.T., inzh.; TARAKANOV, O.G., inzh.

Properties of rigid foamed polyurethanes. Stroi. mat. 9 no.5: 39-40 My '63. (MIRA 16:7)

(Urethanes—Testing)

CHABINKA, Wojciech; TAKUSKA, Wanda; HENNER, Irena

Curves of heparin action in patients operated on. Przegl. lek. Krakow 10 no.12a:401-404 Dec 54.

1. Z III Kliniki chirurg. A.M. w Krakowie - kierownik prof. dr. J.Jasienski

(HEPARIN, effects
on blood coagulation after surg.)
(BLOOD COAGULATION, eff. of drugs on
heparin, after surg.)

TAKUSKI, S.; ZALEWSKI, F.

The relation between the strength of brick walls and the way of brick binding. p. 415.

PRZEGLAD GORNICZY. (Stowarzyszenie Naukowo-Techniczne Inzynierow i Technikow Gornictwa) Katowice, Poland, Vol. 15, no. 9, Sept. 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 1, Jan. 1960.

Uncl.

TAKUSKI, Stanislaw

Deposits of limestone in Ghana. Przegl geol 9 no.10:554-556 '61.

1. Akademia Gorniczo-Hutnicza.

(Ghana--Limestone)

TAKUSKI, Stanislaw

Raw glass materials for the glass industries in Ghana. Szklo 12 no.8: 232-234 Ag '61.

1. Katedra Glebienia Szybow, Akademia Gorniczo-Hutnicza, Krakow.

GAJDEK, Eugeniusz, mgr inz.; TAKUSKI, Stanislaw, dr. inz.

Application of gravel-concrete filters. Gosp wodna 22 no.9:407-409 S '62.

TAKUSKI, Stanislaw

Certain mechanical properties of silicated sands. Gornictwo Krakow no.9 s93-120 '63.

1. Katedra Glebienia Szybow i Budowy Gorniczej, Akademia Gorniczo-Hutnicza, Krakow.

TAKUSKI, Stanislaw, dr inz.

Radiologic measurement of the loosened zone in the floor of mine workings. Przegl gorn 20 no.3:89-92 Mr '64.

TAKUYEV, K.S. (g. Leninakan)

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(APPENDIX (ANATOMY)--SURGERY)

TAKUYEV, K.S., mayor med. sluzhby

Diagnostic value of the "lumbar symptom" in appendicitis. Voen.-med. zhur no.5:91 My '57 (MIRA 12:7)
(APPENDICITIS)

TAKUYEV, K.S.

Surgical treatment of indirect inguinal hernia by Kukudzhanov's method. Sov. med. 27 no.10:32-35 O '63. (MIRA 1[illegible]:6)

Consumers' indoor wiring. TAKY, F. *Elektrotechnika*, 40, 143-6 (*July*, 1948) *In Hungarian.*—Discusses the design of domestic wiring installations and gives a method for estimating possible loads. Examples are given of the most suitable dispositions for fuse-boxes and meters. A.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

TAKY, Ferenc

Questions relating to the modernization of working place illumination. Munkavedelem 8 no.1/3:1-7 '62.

1. Szakszervezetek Orszagos Tanacsa Munkavedelmi Tudomanyos Kutato Intezete;es "Munkavedelem" szerkeszto bizottsaganak tagja.

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Is the color-corrected mercury vapor lamp (HgL) suitable for illuminating inner rooms? Munkavedelem 9 no.4/6:10-13 '63.

1. "Munkavedelem" szerkeszto bizottsagi tagja; Szakszervezetek Orszagos Tanacsa Munkavedelmi Tudomanyos Kutato Intezet.

TAKZEY, A.G.[Taksei, A.H.]

Production of bacon. Khar. prom. no.1:56 Ja-Mr '63. (MIRA 16:4)

1. Ukrainskiy nauchno-issledovatel'skiy institut myasomolochnoy promyshlennosti. (Bacon)

TAKZEI, A.H. [Takzei, A.H.]; GRINEVSKAYA, N.G. [Hrynevs'ka, N.H.]

Revision of the yield norms for slaughtering products.
Khar. prom. no.1:78-80 Ja-Mr '65. (MIRA 18:4)

Quantity of lime in a raw mixture for silicate bricks. A. Fai. *Stroitelnye Materialy* (*Building Materials*) No. 2, 63-6(1930). The quantity of lime depends upon (1) the porosity of the lime, its temp. of firing and its fineness, (2) the mech. and chem. compn. of the sand and the shape of grains, and the state of their surface; (3) homogeneity of the raw mixt.; (4) method of slaking the lime. Uncombined lime in a brick increases its solidity, which increases in proportion to its uniform distribution in the brick, especially in the spaces between the grains. M. V. Kostenko.

[illegible]

[illegible]', A. A.

Dissertation: "The Vyshnegradskiy's Problem in the Theory of Direct Regulation as A Field to the Indirect Regulators and to the Objects with Self-regulation."

[illegible]

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